

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute Form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

2

**Complete if Known**

Application Number	09/650,853
Filing Date	08/29/2000
First Named Inventor	Mandeep Singh Chadha
Art Unit	2643
Examiner Name	Rexford N. Barnie
Attorney Docket Number	M. CHADHA 3-3-1

U. S. PATENT DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number-Kind Code <sup>2</sup> (if known)		Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 6,434,233	08/15/2002	Bjarnason, et al.
		US- 5,809,033	09/15/1998	Turner, et al.
		US- 5,604,769	02/18/1997	Wang
		US- 5,512,898	04/30/1996	Norsworthy
		US- 6,208,671	03/27/2001	Paulos, et al.
		US- 6,628,738	09/30/2003	Peeters, et al.
		US- 6,389,064	05/14/2002	Dholakia, et al.
		US- 5,748,126	05/05/1998	Ma, et al.
		US- 5,351,087	09/27/1994	Christopher, et al.
		US- 6,240,128 B1	05/29/2001	Banerjea, et al.
		US- 5,418,849	05/23/1995	Cannalire, et al.
		US- 5,353,279	10/04/1994	Koyama
		US- 4,924,492	05/08/1990	Gitlin, et al.
		US- 5,841,809	11/24/1998	Koizumi, et al.
		US- 5,396,517	03/07/1995	Yedid, et al.
		US- 4,707,824	11/17/1987	Kanemasa
		US- 5,732,107	03/24/1998	Phillips, et al.
		US-		
		US-		

RECEIVED

JUN 09 2004  
Technology Center 2600

FOREIGN PATENT DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)		Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
				T <sup>6</sup>

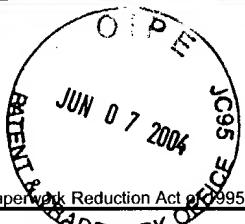
Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

**BEST AVAILABLE COPY**



PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

Complete if Known

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

2

of

2

Application Number

09/650,853

Filing Date

08/29/2000

First Named Inventor

Mandeep Singh Chadha

Art Unit

2643

RECEIVED

JUN 09 2004

Examiner Name

Rexford N. Barnie

Technology Center 2600

Attorney Docket Number

M. CHADHA 3-3-1

### NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Floyd M. Gardner "Interpolation in Digital Modems - Part I: Fundamentals" IEEE Transactions on Communications, Vol. 41, No. 3, March 1993; pp. 501-507	
		Lars Erup, et al. "Interpolation in Digital Modems - Part II: Implementation and Performance" IEEE Transactions on Communications, Vol. 41, No. 6, June 1993; pp. 998-1008	
		James. D. Barnette, et al.; U.S. Patent Application Serial No. 09/652,116, filed 08/29/2000 entitled "Resampler for a bit Pump and Method of Resampling a Signal Associated Therewith"; pp. 1-59; 6 drawing sheets	
		Mandeep Singh Chadha, et al.; U.S. Patent Application Serial No. 09/650,854, filed 08/29/2000 entitled "Separation Circuit for an Echo Canceling System and Method of Operating the Same"; pp. 1-67; 6 drawing sheets	
		James D. Barnette; U.S. Patent Application Serial No. 09/650,850, filed 08/29/2000 entitled "An Interpolator, A Resampler Employing the Interpolator and Method of Interpolating a Signal Associated Therewith"; pp.1-78; 5 drawing Sheets	
		Mandeep Singh Chadha, et al.; U.S. Patent Application Serial No. 09/650,851, filed 08/29/2000 entitled "Filter Circuit for a Bit Pump and Method of Configuring the Same" pp. 1-57; 7 drawing sheets	

Examiner Signature	Date Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

BEST AVAILABLE COPY